

App. No. 09/901,600
Amendment date 03/11/04
Reply to Office Action of March 01, 2004

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A method for routing calls through a discount telephone service using a wireless device, comprising: determining whether an outgoing call is a discount call;

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collecting the digits corresponding to the discount call; and dialing the access number for a discount telephone service provider and the digits corresponding to the discount call.

Claim 2 (currently amended): The method according to claim 1, further comprising: detecting a first predetermined number of ~~DTMF tones~~ electrical signals encoding the digits corresponding to a discount call.

Claim 3 (currently amended): The method according to claim 2, wherein the determining whether a discount call is made is accomplished by determining whether

App. No. 09/901,600

Amendment date 03/11/04

Reply to Office Action of March 01, 2004

the first predetermined number of ~~DTMF~~² tones- said electrical signals encoding the digits of an outgoing call meets a predetermined sequence of ~~DTMF~~ tones digits.

Claim 4 (currently amended): The method according to claim 2, wherein the determining whether a discount call is made is accomplished by determining whether the first ~~DTMF~~ tone electrical signal encodes for the digit associated with a dialed number is zero.

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Claim 5 (original): The method according to claim 2, further comprising: determining whether an access code is required to effectuate said routing; and providing said access code ~~to the telephone line~~ when said code is required.

Claim 6 (original): The method according to claim 1, wherein the discount call is an international call.

Claim 7 (original): The method according to claim 1, wherein the discount call is not a special service call or toll free call.

Claim 8 (original): The method according to claim 2, further comprising:
choosing the access number among a plurality
of access numbers for discount telephone providers; and

App. No. 09/901,600
Amendment date 03/11/04
Reply to Office Action of March 01, 2004

dialing the selected access number of the associated discount telephone service provider.

Claim 9 (currently amended): A method for routing calls through a discount telephone service using a wireless device, comprising:

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- monitoring phone function keys for outgoing call activity;
- determining whether the outgoing call is a potential discount call;
- detecting the ~~DTMF tones~~ digits of the outgoing call corresponding to a first predetermined number of ~~DTMF tones~~ digits, wherein the determining whether the outgoing call is a potential discount call is accomplished by determining whether the first predetermined number of at least one ~~DTMF tone~~ digit meets a predetermined sequence of the ~~DTMF tones~~ digits;
- collecting the digits corresponding to the discount call; and
- dialing the access number for a discount telephone provider and the digits corresponding to the discount call.

Claim 10 (original): The method according to claim 9, further comprising:
effectuating a re-set state when an initial phone number is entered but not dialed.

Claim 11 (original): The method according to claim 9, further comprising:
determining whether an access code is required to effectuate said routing;
and transmitting said access code through the cell phone when said code is required.

App. No. 09/901,600
Amendment date 03/11/04
Reply to Office Action of March 01, 2004

Claim 12 (original): The method according to claim 9, wherein the potential discount call is an international call.

Claim 13 (currently amended): A system for automatically routing calls through a discount telephone service using a wireless device, comprising:

means for determining whether an outgoing call is a potential discount call;

means for collecting the digits corresponding to the outgoing call; and

means for dialing the access number for a discount telephone service provider and the digits corresponding to the outgoing call.

Claim 14 (original): The system according to claim 13, further comprising:

means for detecting a first predetermined number of DTMF tones corresponding to a potential discount call.

Claim 15 (original): The system according to claim 14, wherein the means for determining whether a discount call is made is accomplished by a means for determining whether the first predetermined number of DTMF tones meets a predetermined sequence of DTMF tones.

Claim 16 (original): The system according to claim 14, wherein the means for determining whether a discount call is made is accomplished by the first DTMF tone

App. No. 09/901,600
Amendment date 03/11/04
Reply to Office Action of March 01, 2004

associated with a dialed number is zero.

Claim 17 (original): The system according to claim 14, further comprising:

means for determining whether an access code is required to effectuate
said routing; and

means for providing said access code to the cell phone when said code is
required.

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Claim 18 (original): The system according to claim 13, wherein the potential discount
call is an international

Claim 19 (original): The system according to claim 13, wherein the potential discount
call is not a special service call or toll free

Claim 20 (original): The system according to claim 14, further comprising:

means for choosing the access number among a plurality of access numbers for
discount telephone
providers; and

means for dialing the selected access number of the associated discount telephone
provider.

Claim 21 (original): A system for routing calls through a discount telephone service,

App. No. 09/901,600
 Amendment date 03/11/04
 Reply to Office Action of March 01, 2004

comprising:

means for monitoring a cell phone function keys for outgoing call activity;

means for determining whether the outgoing call is a potential discount call;

~~means for detecting at least one DTMF tone corresponding to a first predetermined number of said at least one DTMF tone, wherein the means for determining whether the outgoing call is a potential discount call is accomplished by determining whether the first predetermined number of DTMF tones meets a predetermined sequence of DTMF tones;~~

means of detecting the digits corresponding to a first predetermined number of digits, wherein the determining whether the outgoing call is a potential discount call is accomplished by determining whether the first predetermined number of at least one digit meets a predetermined sequence in the digits;

means for collecting the digits corresponding to the discount call; and

means for dialing the access number for a discount telephone provider and the digits corresponding to the discount call.

Claim 22 (original): The system according to claim 21, further comprising:

means for determining whether an access code is required to effectuate said routing; and

means for transmitting said access code through the cell phone when said code is required.

App. No. 09/901,600
Amendment date 03/11/04
Reply to Office Action of March 01, 2004

Claim 23 (original): The system according to claim 21, wherein the potential discount call is an international call.

Claim 24 (original): The system according to claim 21, wherein the potential discount call is not a special call or a toll free call.

Claim 25 (currently amended): A system for routing calls through a discount telephone service using a wireless device, comprising:

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a microchip ~~DTMF decoder~~ configured for identifying ~~DTMF tones~~ electrical signals encoding digits associated with an outgoing telephone number;

a processor configured for analyzing one or more of the ~~DTMF tones~~ electrical signals encoding the digits, and configured for determining whether a potential discount call is being made;

a memory configured for collecting the telephone number corresponding to the potential discount call; and

a ~~DTMF generator~~ microchip configured for ~~dialing~~ generating electrical signals corresponding to the access phone number for a discount service provider, an access code if needed, and the outgoing call telephone number.

Claim 26 (currently amended): The system according to claim 25, wherein the processor is further configured for comparing a first predetermined number of said ~~DTMF tones~~ electrical signal encoding the digits in order to determine whether the

App. No. 09/901,600
Amendment date 03/11/04
Reply to Office Action of March 01, 2004

outgoing telephone number is a discount call.

Claim 27(currently amended): The system according to claim 26, wherein the predetermined sequence comprises the ~~tone~~ electrical signal encoding the digit associated with the number zero.

Claim 28 (currently amended): The system according to claim 27, wherein the ~~tone~~ electrical signal encoding the digit associated with the number zero is located in a predetermined position.

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Claim 29 (original): The system according to claim 26, wherein the processor is further configured for determining whether an international phone call is being made prior to the detection of a Send Key command.

Claim 30 (original): The system according to claim 26, wherein the processor is further configured for determining whether an access code is required to effectuate said routing, and for transmitting said access code stored in memory over the cell phone when said code is required.

Claim 31 (original): The system according to claim 25, wherein the potential discount call is an international call

App. No. 09/901,600
Amendment date 03/11/04
Reply to Office Action of March 01, 2004

Claim 32 (original): The system according to claim 25, wherein the potential discount call is not a special type call or toll free call.

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Claim 33 (currently amended): The system according to claim 26, wherein the processor is further configured for choosing an access number from a plurality of access numbers for a discount service provider, and for dialing the selected access number associated with the discount service provider, said dialing is effectuated by a chip that generates electrical signals encoding digits corresponding to the access number, the access number among a plurality of access numbers for discount telephone providers, and for dialing the selected access number of the associated discount telephone provider, said dialing is effectuated by the tones generated by the DTMF generator.

Claim 34 (original): A system for routing calls through a discount telephone service, comprising:

an array of Pic I/O pins configured for monitoring a cell phone activity for outgoing call, said array comprising of at least one Pic I/O pin;

a DTMF encoder configured for detecting the DTMF tones associated with an outgoing telephone number, a processor configured for determining whether the outgoing call is a discount call by determining whether the predetermined number of dialed digits comprises a predetermined sequence of at least one DTMF tone that is dialed by a user; a memory configured for storing the telephone number corresponding

App. No. 09/901,600
Amendment date 03/11/04
Reply to Office Action of March 01, 2004

to the discount call; and a DTMF generator configured for dialing the access number for a discount service provider and the outgoing telephone number.

Claim 35 (original): The system according to claim 34, wherein the processor is further configured for determining whether an access code is required to effectuate said routing, and for transmitting said access code over the cell phone when said code is required.

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Claim 36 (original): The system according to claim 34, wherein the potential discount call is an international call.

Claim 37 (original): The system according to claim 34, wherein the potential discount call is not a special type call or a toll free call.

Claim 38 (original): A cell phone comprising the Router of claim 21.

Claim 39 (original): A cell phone comprising the Router of claim 34.

Claim 40 (currently amended): Located within a wireless device, computer executable software code stored on a computer readable medium, the code for routing calls through a discount telephone service using said wireless device, comprising: code for determining whether an outgoing call is a discount call;

App. No. 09/901,600
Amendment date 03/11/04
Reply to Office Action of March 01, 2004

code for collecting the digits corresponding to the discount call;
code for dialing the access number for a discount telephone service provider and
the digits corresponding to the discount call; and
code for dialing the access code if needed.

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Claim 41 (currently amended): A computer readable medium having computer
executable software code stored thereon, the code for automatically routing calls
through a discount telephone service using a wireless device, comprising:

code for determining whether an outgoing call is a discount call;
code for collecting the digits corresponding to the discount call; and
code for dialing the access number for a discount telephone service provider and
the digits corresponding to the discount call.

Claim 42 (currently amended): A programmed computer for routing calls through a
discount telephone service using a wireless device, comprising:

a memory having at least one region for storing computer executable program
code; and
a processor for executing the program code store in memory, wherein the program
code includes:

code for determining whether an outgoing call is a discount call;
code for collecting the digits corresponding to the discount call; and
code for dialing the access number for a discount telephone service provider and

App. No. 09/901,600
Amendment date 03/11/04
Reply to Office Action of March 01, 2004

the digits corresponding to the discount call.

Claim 43 (original): Computer executable software code stored on a computer readable medium, the code for routing calls through a discount telephone service, comprising:

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code for monitoring a cell phone for outgoing call activity;
code for determining whether the outgoing call is a potential discount call;
code for detecting the DTMF tones corresponding to a first predetermined number of DTMF tones, wherein the determining whether the outgoing call is a potential discount call is accomplished by determining whether the first predetermined number of at least one DTMF tone meets a predetermined sequence of the DTMF tones;

code for collecting the digits corresponding to the discount call; and
code for dialing the access number for a discount cell phone provider and the digits corresponding to the discount call.

Claim 44 (original): A computer readable medium having Computer executable software code stored thereon, the

code for routing calls through a discount telephone service, comprising:
code for monitoring a cell phone activity for outgoing call;
code for determining whether the outgoing call is a potential discount call;
code for detecting the DTMF tones corresponding to a first predetermined number of DTMF tones, wherein the determining whether the outgoing call is a potential discount call is accomplished by determining whether the first predetermined number of

App. No. 09/901,600
Amendment date 03/11/04
Reply to Office Action of March 01, 2004

at least one DTMF tone meets a predetermined sequence of the DTMF tones;
code for collecting the digits corresponding to the discount call;
code for determining whether all of the numbers associated with the discount call
have been collected within a predetermined polling period; and
code for dialing the access number for a discount telephone provider and the
digits corresponding to the discount call.

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Claim 45 (original): A programmed computer for routing calls through a discount
telephone service, comprising:

a memory having at least one region for storing computer executable program
code; and
a processor for executing the program code store in memory, wherein the program
code includes: code for monitoring a cell phone activity for outgoing call;
code for determining whether the outgoing call is a potential discount call;
code for detecting the DTMF tones corresponding to a first predetermined number
of DTMF tones, wherein the determining whether the outgoing call is a potential
discount call is accomplished by determining whether the first predetermined number
of at least one DTMF tone meets a predetermined sequence of the DTMF tones;
code for collecting the digits corresponding to the discount call; and
code for dialing the access number for a discount telephone provider and the
digits corresponding to the discount call.